REFERENCE COPY OF THE CLAIMS

1. (previously presented)   A web server having a user space and an operating system space, wherein the user space includes:

an application lever interpreter configured to process a client request;

at least one kernel extension device driver enabling the application level interpreter to communicate with a network interface to receive the client request; and

a transmission protocol library, including TCP/IP library routines, enabling the web server to process the client request and corresponding response within the user space.

2. (original)   The server of claim 1, wherein the interpreter comprises an HTTP interpreter.

3-4. (canceled)

5. (previously presented)   The server of claim 1, wherein the library includes only those routines necessary for processing of requests to and responses from the interpreter.

6. (original)   The server of claim 1, wherein the web server includes a user space file cache.

7. (original)   The server of claim 1, wherein the web server is configured to initiate multiple threads within its user space responsive to user requests.

8. (original)   The server of claim 7, wherein the threads include threads selected from the group of threads including perl scripts, cgi threads, and Java servlets.

9. (previously presented)   A web server comprising:

processor, memory, and input means;

a dedicated network interface and a general purpose network interface;

a user space application level interpreter configured to process a client request;

user space kernel extension device drivers enabling the application level interpreter to communicate with the dedicated network interface to receive the client request; and

a user space TCP/IP protocol stack enabling the web server to perform network processing of the client request and a corresponding response within the user space.

10. (original) The server of claim 9, wherein the interpreter comprises an HTTP interpreter.

11-13. (canceled)

14. (original) The server of claim 9, wherein the web server includes a user space file cache.

15. (original) The server of claim 9, wherein the web server is configured to initiate multiple threads within its user space responsive to user requests.

16. (original) The server of claim 15, wherein the threads include threads selected from the group of threads including perl scripts, cgi threads, and Java servlets.

17. (previously presented) A computer program product comprising computer executable instructions, residing on a computer readable medium, for processing client requests in a data processing server, the instructions comprising:

instructions for mapping a network interface to the user space of a web server application;

instructions within the web server application user space for processing the network packet;

instructions within the web server application user space for interpreting an application layer header of the network packet; and

instructions for generating a response to the network packet including user space code means for retrieving and HTML file, user space code means for executing a perl script, and user space code for executing a Java servlet wherein the instructions for processing the network packet comprise a user space TCP/IP protocol stack.

18. (canceled)

19. (previously presented)   The computer program product of claim 17, wherein the instructions for interpreting the application layer header comprises and HTTP interpreter.

20. (canceled)

21. (previously presented)   The server of claim 1, wherein the web server is configured to poll the network interface periodically.

22. (previously presented)   The server of claim 9, wherein the web server is configured to poll the network interface periodically.

23. (previously presented)   The computer program product of claim 17, further comprising instructions for polling the network interface to determine the arrival of a network packet.